Rec'd 11/23/2022 - ## [illegible]

EARTHJUSTICE

L. Garcia
P. Simon
D. La Posta
J. Iannesso
D. Rluna

November 17, 2022

BY CERTIFIED MAIL

Dale Irwin
President & Plant Manager
Greenidge Generation LLC
590 Plant Road
Dresden, New York 14441-0187

Michael Regan, Administrator
U.S. Environmental Protection Agency
Mail Code 1101A
1200 Pennsylvania Ave. N.W.
Washington, DC 20460

Lisa F. Garcia, Regional Administrator
U.S. Environmental Protection Agency Region 2
Ted Weiss Federal Building, 290 Broadway
New York, NY 10007

Basil Seggos, Commissioner
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-1010

Re: 60-Day Notice of Intent to File Citizen Suit Under Clean Water Act Section 505(a)(1) for Greenidge Generation, LLC's Violations of Clean Water Act at the Greenidge Generation Station in Dresden, New York

To Whom it May Concern:

In accordance with Section 505 of the Clean Water Act ("the Act"), 33 U.S.C. § 1365, and 40 CFR Part 135, Seneca Lake Guardian, Sierra Club, and Committee to Preserve the Finger Lakes hereby notify you that Greenidge Generation, LLC ("Greenidge" or "the company") has violated and continues to violate "effluent standard[s] or limitation[s]" under Section 505(a)(1)(A) & (f) of the Act by discharging pollutants at the Greenidge Generation Station, DEC ID: 8573600004 ("the Facility") in Dresden, New York without authorization in a State Pollutant Discharge Elimination System ("SPDES") permit.

This letter identifies the same violations highlighted in a Notice of Intent to File Citizen Suit mailed to Greenidge on October 14, 2022, but adds two additional parties, Sierra Club and Committee to Preserve the Finger Lakes, to the notice. The Facility's SPDES Permit, NY001325, has expired and Greenidge has failed to submit a complete application for a new permit. Further, Greenidge is violating

an express condition of its permit by operating without control technology mandated by the New York Department of Environmental Conservation ("DEC"). If, within sixty days of the postmark of this letter, you do not bring your Facility into full compliance with the Act, we intend to file a citizen suit seeking civil penalties for your ongoing violations and an injunction compelling you to comply with the Act.

1. Background

Greenidge Generation Station is a once-through-cooling power plant used for cryptocurrency mining. The Facility discharges into Seneca Lake, a gem in the Finger Lakes, which is popular for swimming, boating, and fishing. The mesotrophic lake has seen its water quality has suffer over the past few decades, and significant discharges of pollutants into the water body are therefore a matter of public concern.

The Facility began operating as a coal fired power plant in the 1930s, but stopped operating as such in 2011 when the owner declared bankruptcy. The Facility was acquired by the company with backing from a private equity firm in 2014. Afterward, Greenidge sought renewal of the Facility's SPDES permit from DEC. In 2017, DEC issued a renewed SPDES permit for the power plant to operate as a gas-fired power plant serving as a "peaker"—a type of power plant that operates only intermittently in order to shore up the reliability of the electrical grid. The 2017 permit was modified in 2019 ("2019 Permit" attached as "Exhibit A"). The 2019 Permit expired on September 30, 2022.

2. Clean Water Act Violations

The Facility is presently discharging into Seneca Lake without a new permit. Upon information and belief, the Facility will continue discharging. As a result, Greenidge is in violation of Clean Water Act Section 301(a), 33 U.S.C. § 1311(a). Greenidge failed to timely renew its 2019 Permit, which expired on September 30, 2022. In fact, Greenidge never submitted a complete application to DEC sufficient to trigger administrative continuance of its 2019 SPDES Permit after the permit's expiration date.

Even Greenidge had timely submitted a complete application to DEC, an enforcement action would be warranted because the company violated a condition contained within the SPDES Permit NY001325. Specifically, Greenidge has failed to install cylindrical wedge wire intake screens onto the Facility by the October 1, 2022 deadline required by the 2019 Permit.

a. Greenidge is in violation of Clean Water Act Section 301(a) because the Facility is discharging into Seneca Lake without a SPDES Permit.

Greenidge's SPDES Permit expired on September 30, 2022, and with it so did the Facility's permission to discharge into Seneca Lake. Greenidge applied for a renewal of the permit on January 12, 2022, indicating that it was seeking a thermal variance. However, Greenidge completed a short SPDES permit renewal application ("Exhibit B") comprising seven pages, and only including a few sentences worth of information about the Facility. According to binding federal regulations, the terse application submitted by Greenidge to DEC for renewal of SPDES Permit NY001325 is incomplete. Therefore, Greenidge is discharging into Seneca Lake without a permit.

i. Greenidge's application is incomplete because it lacks required information for facilities with cooling water intake structures.

Greenidge failed to supply legally-required information about its cooling water intake structure as a part of its renewal application. Federal regulations require an "owner or operator of [such an existing] facility… whose currently effective permit expires after July 14, 2018," to submit to "the information required in the applicable provisions of 40 CFR § 122.21(r) when applying for a subsequent permit." 40 CFR § 122.95(a). This provision covers applications submitted for state delegated programs. *See also id.* §§ 123.25(a)(4), (a)(36). Greenidge simply ignored this regulation.

ii. Greenidge's application is incomplete because it lacks required information regarding its major operational change from peaker plant to Cryptomining Facility.

EPA, in its 2019 Region 2 NPDES Program and Permit Review stated that "[i]n order to comply with federal regulations regarding the timeliness of renewal applications (40 CFR §122.21(d)(1)) and complete applications (40 CFR §122.21(e)), []DEC should ensure that a complete application, rather than a short application form, is submitted by the permittee prior to the administrative continuance of any permit." *See* 2019 Region 2 NPDES Program and Permit Review at 15-16 (describing compliance with these federal regulations as an "Essential" action item that DEC "must" ensure is implemented), available at https://www.epa.gov/sites/default/files/2019-07/documents/new_york_2019.pdf. In order to provide reviewers of a SPDES application with insight into the nature of operations the operations of a prospective discharging facility, an applicant is required to include information in its application pertaining to "[t]he activities conducted... which require it to obtain an NPDES permit" and "[a] brief description of the nature of the business," as well as "[u]p to four SIC and up to four NAICS codes that best reflect the principal products or services provided by the facility." *See* 40 CFR §§ 122.21(f)(1), (3), (8).

Greenidge's application is incomplete because it lacks an up-to-date description of activities conducted at the Facility and the nature of its business. Greenidge's application made no mention of the fact that the Facility underwent a major operational change after DEC granted Greenidge a permit modification in 2019. Specifically, in 2020, Greenidge repurposed the Facility so that it would facilitate cryptocurrency mining operating 24 hours a day, 7 days a week, instead of just operating intermittently as a peaker plant for purposes of grid reliability. This major operational change has greatly exacerbated the environmental impacts of the Facility on Seneca Lake. The power plant withdraws large volumes of water from Seneca Lake into a cooling water intake structure, and discharges over one hundred million gallons of heated effluent and other pollutants into the lake daily.

b. Greenidge is Violating a Condition of SPDES Permit NY001325 to Install DEC-Mandated Control Technology onto the Facility.

Greenidge failed to comply with an important condition contained within SPDES Permit NY001325. *See* 40 CFR § 122.41(a) ("The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action."). SPDES Permit NY001325 gave Greenidge until October 1, 2022 to install cylindrical wedge wire intake screens onto its Facility. *See* Exhibit A at 15-16 DEC required the

installation of the intake screens as a means of compliance with a best available control technology finding made by the state agency. *See* Exhibit A at 14-15. The intake screens were supposed to mitigate the impingement and entrainment of aquatic life by the Facility. *See* 2017 Permit Biological Fact Sheet – Cooling Water Intake Structure at 2-3. DEC opted to allow Greenidge to install intake screens onto the Facility rather than an even more protective control technology, closed cycle cooling, in part, because installation of intake screens would be more easily achievable by the company. *See id.* Although Greenidge had a more-than-sufficient five years to meet this deadline, the company failed to do so.

DEC has rewarded the company with a generous, but illegal, extension on the deadline to install the intake screens. *See* Minor Modification Fact Sheet at 2. DEC lacks authority under state regulations to issue "minor modifications" of permits. *See* NYCRR §§ 750-1.14(e); 750-1.18. Instead, DEC cites to 40 CFR § 122.63 as authority for this "minor modification" of the installation deadline. *See* Minor Modification Fact Sheet at 3. Yet, this federal regulation is not on the 40 CFR § 123.25 list of regulations applicable to state delegated programs. Furthermore, 40 CFR § 122.63 bars DEC from issuing such an extension where doing so would "interfere with attainment of the final compliance date requirement" in a SPDES Permit. 40 CFR § 122.63(c). DEC alleges that the installation deadline of October 1, 2022 was merely an "interim milestone." *See* Minor Modification Fact Sheet at 2. Yet, this assertion is belied by the express terms of SPDES Permit NY001325, which states "[n]otwithstanding any extensions that may be granted by the Department, the completion of installation and operation of [the Best Available Technology] shall not occur later than [October 1, 2017] + 5 years." *See* Exhibit A at 1, 16. The October 1, 2022 deadline was plainly a "final compliance date," and thus, DEC's modification of the compliance date is void and Greenidge remains out of compliance with this permit condition.

3. Identity and Address of Parties Giving Notice

The parties giving notice are as follows:

Seneca Lake Guardian
607-769-4639
PO Box 333
Watkins Glen, NY 14891

Roger Downs
Sierra Club
518-426-9144
744 Broadway
Albany, NY 12207

Abi Buddington
Committee to Preserve the Finger Lakes
585-461-1820
PO Box 505
Penn Yan, NY 14527-0505

Seneca Lake Guardian, Sierra Club, and Committee to Preserve the Finger Lakes are represented by the legal counsel identified below:

Michael Youhana
Earthjustice
48 Wall St 15th floor
New York, NY 10005
212-845-7376x8033
myouhana@earthjustice.org

Jill Witkowski Heaps
Earthjustice
48 Wall St 15th floor
New York, NY 10005
212-845-7376x8033
jheaps@earthjustice.org

Conclusion

For the reasons stated above, Greenidge is illegally discharging into Seneca Lake. Continued discharges into the lake in the absence of a valid permit constitute a violation of Clean Water Act Section 301(a), 33 U.S.C. § 1311(a). Furthermore, Greenidge's failure to install control technology by the 2019 Permit deadline violates an express condition of the 2019 Permit. As stated above, Seneca Lake Guardian, Sierra Club, and Committee to Preserve the Finger Lakes intend to file a citizen suit under Section 505(a)(1) of the Act seeking civil penalties for your ongoing violations and an injunction compelling you to comply with the Act. These parties further reserve the right to seek civil penalties for any further violations of the Act stemming from the issues identified herein that occur after today.

If Greenidge has taken any steps to remedy the underlying cause of the violations described above, or if Greenidge believes that anything in this letter is inaccurate, please let us know. If Greenidge does not advise us of any remedial steps or inaccuracies during the 60-day period, we will assume that no such steps have been taken, that the information in this letter is accurate, and that violations are likely to continue. We would be happy to meet with Greenidge or its representatives to attempt to resolve these issues within the 60-day notice period.

Respectfully submitted,

Michael Youhana, Esq.
Jill Witkowski Heaps, Esq.
212-845-7392
myouhana@earthjustice.org
48 Wall St 15th floor
New York, NY 10005

Legal counsel for:

Seneca Lake Guardian
607-769-4639
PO Box 333
Watkins Glen NY 14891

Roger Downs
Sierra Club
518-426-9144
744 Broadway
Albany, NY 12207

Abi Buddington
Committee to Preserve the Finger Lakes
585-461-1820
PO Box 505
Penn Yan, NY 14527-0505

Exhibit A

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

State Pollutant Discharge Elimination System (SPDES)
DISCHARGE PERMIT

Industrial Code:	4911	SPDES Number:	NY0001325
Discharge Class (CL):	03	DEC Number:	8-5736-00004/00001-0
Toxic Class (TX):	T	Effective Date (EDP):	10/01/2017
Major Drainage Basin:	07	Expiration Date (ExDP):	09/30/2022
Sub Drainage Basin:	05	Modification Dates: (EDPM)	10/01/2019
Water Index Number:	Seneca Lake		
Compact Area:			

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act, as amended, (33 U.S.C. § 1251 et. seq.) (hereinafter referred to as "the Act" or "CWA").

PERMITTEE NAME AND ADDRESS					
Name:	Greenidge Generation LLC	Attention:	Dale Irwin		
Street:	590 Plant Road				
City:	Dresden	State:	NY	Zip Code:	14441

is authorized to discharge from the facility described below:

FACILITY NAME AND ADDRESS													
Name:	Greenidge Power Generating Station												
Location (C,T,V):	Dresden (V)								County:	Yates			
Facility Address:	590 Plant Road, PO Box 187												
City:	Dresden						State:	NY		Zip Code:	14441		
From Outfall No.:	001	at Latitude:	42	°	40	'	57	"	& Longitude:	76	°	56	'	56	"
into receiving waters known as:	Keuka Lake Outlet									Class:	C(T)		

and (list other Outfalls, Receiving Waters & Water Classifications)

01A	Keuka Lake Outlet	Class C(T)
002, 02A – 02I	Seneca Lake	Class B(T) & Groundwater (GA)
005	Seneca Lake	Class B(T)

in accordance with: effluent limitations; monitoring and reporting requirements; other provisions and conditions set forth in this permit; and 6 NYCRR Part 750-1and 750-2.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS					
Mailing Name:	Greenidge Generation LLC				
Street:	590 Plant Road, PO Box 187				
City:	Dresden	State:	NY	Zip Code:	14441
Responsible Official or Agent:	Dale Irwin		Phone:	(315) 536-2359 Ext 3423	

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for permit renewal not less than 180 days prior to the expiration date shown above.

DISTRIBUTION:

CO.BWP - Permit Coordinator
RWE
RPA
Region2_NPDES@epa.gov

Permit Administrator: Kimberly Merchant	
Address: NYSDEC 6274 E. Avon-Lima Road, Avon, NY 14414	
Signature: Kimberly A. Merchant	Date: 09/05/2019

OUTFALL SUMMARY

OUTFALL	DESCRIPTION	RECEIVING WATER / CLASS	LATITUDE LONGITUDE
001	Condenser Cooling Water and Outfall 01A Discharge	Keuka Lake Outlet Class C(T)	42° 40' 57" 76° 56' 56"
01A	Unit 4 Boiler Blowdown	Keuka Lake Outlet Class C(T)	42° 40' 57" 76° 56' 56"
002	Bottom Ash Pond Overflow to Seneca lake, Includes Stormwater; treated Coal Pile Runoff (02C); Treated Maintenance Cleaning Wastewater (02D); Oil Separator (02A); Boiler Chemical Cleaning Final Rinse (02B); and Outfalls 02E – 02I.	Seneca Lake Class B(T) & Groundwater (GA)	42° 40' 40" 76° 56' 38"
02A	Oil Separator (process oil, fuel oil storage area)	Seneca Lake Class B(T) & Groundwater (GA)	42° 40' 40" 76° 56' 38"
02B	Boiler Water Final Rinse	Seneca Lake Class B(T) & Groundwater (GA)	42° 40' 40" 76° 56' 38"
02C	Coal Pile Runoff, Fly Ash Hopper Decant, Demineralizer Regenerate Wastewater, Maintenance Cleaning Wastewater – treated and batch discharge to Ash Pond	Seneca Lake Class B(T) & Groundwater (GA)	42° 40' 40" 76° 56' 38"
02D	Treated Maintenance Cleaning Wastewater – batch discharged via 02C to Ash Pond	Seneca Lake Class B(T) & Groundwater (GA)	42° 40' 40" 76° 56' 38"
02E	Process Equipment Cooling Water, In-Plant drain Collection Sump	Seneca Lake Class B(T) & Groundwater (GA)	42° 40' 40" 76° 56' 38"
02F	Plant Feedwater Make-up Treatment	Seneca Lake Class B(T) & Groundwater (GA)	42° 40' 40" 76° 56' 38"
02G	Bottom Ash Sluice System	Seneca Lake Class B(T) & Groundwater (GA)	42° 40' 40" 76° 56' 38"
02H	North Yard Drain Sump and East Yard Drain Sump	Seneca Lake Class B(T) & Groundwater (GA)	42° 40' 40" 76° 56' 38"
02I	Roof Drains	Seneca Lake Class B(T) & Groundwater (GA)	42° 40' 40" 76° 56' 38"
005	Stormwater and Groundwater discharge	Seneca Lake Class B(T)	42° 40' 40" 76° 56' 36"

PERMIT LIMITS, LEVELS AND MONITORING DEFINITIONS

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
	This cell describes the type of wastewater authorized for discharge. Examples include process or sanitary wastewater, storm water, non-contact cooling water.	This cell lists classified waters of the state to which the listed outfall discharges.	The date this page starts in effect. (e.g. EDP or EDPM)	The date this page is no longer in effect. (e.g. ExDP)

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQ.	SAMPLE TYPE
e.g. pH, TRC, Temperature, D.O.	The minimum level that must be maintained at all instants in time.	The maximum level that may not be exceeded at any instant in time.	SU, °F, mg/l, etc.	See below	See below

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL	COMPLIANCE LEVEL / ML	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE
	Limit types are defined below in Note 1. The effluent limit is developed based on the more stringent of technology-based limits, required under the Clean Water Act, or New York State water quality standards. The limit has been derived based on existing assumptions and rules. These assumptions include receiving water hardness, pH and temperature; rates of this and other discharges to the receiving stream; etc. If assumptions or rules change the limit may, after due process and modification of this permit, change.	For the purposes of compliance assessment, the permittee shall use the approved EPA analytical method with the lowest possible detection limit as promulgated under 40CFR Part 136 for the determination of the concentrations of parameters present in the sample unless otherwise specified. If a sample result is below the detection limit of the most sensitive method, compliance with the permit limit for that parameter was achieved. Monitoring results that are lower than this level must be reported but shall not be used to determine compliance with the calculated limit. This Minimum Level (ML) can be neither lowered nor raised without a modification of this permit.	Action Levels are monitoring requirements, as defined below in Note 2, which trigger additional monitoring and permit review when exceeded.	This can include units of flow, pH, mass, temperature, or concentration. Examples include µg/l, lbs/d, etc.	Examples include Daily, 3/week, weekly, 2/month, monthly, quarterly, 2/yr and yearly. All monitoring periods (quarterly, semiannual, annual, etc) are based upon the calendar year unless otherwise specified in this Permit.	Examples include grab, 24 hour composite and 3 grab samples collected over a 6 hour period.

Notes:

1. EFFLUENT LIMIT TYPES:
   a. DAILY DISCHARGE: The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants expressed in units of mass, the 'daily discharge' is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the 'daily discharge' is calculated as the average measurement of the pollutant over the day.
   b. DAILY MAX: The highest allowable daily discharge. DAILY MIN: The lowest allowable daily discharge.
   c. MONTHLY AVG: The highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
   d. 7 DAY ARITHMETIC MEAN (7-day average): The highest allowable average of daily discharges over a calendar week.
   e. 30 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar month, calculated as the antilog of: the sum of the log of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
   f. 7 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar week.
   g. RANGE: The minimum and maximum instantaneous measurements for the reporting period must remain between the two values shown.

2. ACTION LEVELS: Routine Action Level monitoring results, if not provided for on the Discharge Monitoring Report (DMR) form, shall be appended to the DMR for the period during which the sampling was conducted. If the additional monitoring requirement is triggered as noted below, the permittee shall undertake a short-term, high-intensity monitoring program for the parameter(s). Samples identical to those required for routine monitoring purposes shall be taken on each of at least three consecutive operating and discharging days and analyzed. Results shall be expressed in terms of both concentration and mass and shall be submitted no later than the end of the third month following the month when the additional monitoring requirement was triggered. Results may be appended to the DMR or transmitted under separate cover to the same address. If levels higher than the Action Levels are confirmed, the permit may be reopened by the Department for consideration of revised Action Levels or effluent limits. The permittee is not authorized to discharge any of the listed parameters at levels which may cause or contribute to a violation of water quality standards.

PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
001	Condenser Cooling Water	Keuka Lake Outlet	10/01/2019	09/30/2022

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		COMPLIANCE LEVEL/ ML	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max						
Flow Rate	----	134			MGD	Continuous	(3)	(3)
Discharge Temperature (Summer)	----	108			°F	Continuous	Recorder	(5)
Discharge Temperature (Winter)	----	86			°F	Continuous	Recorder	(5)
Intake-Discharge Temperature Difference (Summer)	----	26			°F	Continuous	Calculation	(5)
Intake-Discharge Temperature Difference (Winter)	----	31			°F	Continuous	Calculation	(5)
Total Residual Chlorine	----	0.050			mg/L	Continuous	Recorder	(4)

FOOTNOTES: See page 10 of this Permit.

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
01A	Unit 4 Boiler Blowdown	Keuka Lake Outlet	10/01/2019	09/30/2022

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	Quarterly	Grab	

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		COMPLIANCE LEVEL/ ML	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max						
Flow Rate	Monitor	Monitor			GPD	Quarterly	Estimate	
Solids, Total Suspended (TSS)	30	100			mg/L	Quarterly	Grab	
Oil & Grease	----	15			mg/L	Quarterly	Grab	

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
002	Bottom Ash Pond Overflow, Includes Stormwater; treated Coal Pile Runoff (02C); Treated Maintenance Cleaning Wastewater (02D); Oil Separator (02A); Boiler Chemical Cleaning Final Rinse (02B); and Outfalls 02E – 02I.	Seneca Lake & Groundwater	10/01/2019	09/30/2022

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.5	9.0	SU	Weekly	Grab	
Temperature	Monitor	Monitor	°F	1/day	Grab	(6)

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		COMPLIANCE LEVEL/ ML	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max						
Flow Rate	Monitor	Monitor			MGD	Continuous	Recorder	
Solids, Total Suspended (TSS)	----	50			mg/L	Weekly	24-hr. Comp.	
Oil & Grease	----	15			mg/L	Weekly	Grab	
Aluminum, Total	----	2.0			mg/L	Monthly	24-hr. Comp.	
Arsenic, Total	----	0.050			mg/L	2/Month	24-hr. Comp.	
Barium, Total	----	2.0			mg/L	Monthly	24-hr. Comp.	
Boron, Total	----	2.0			mg/L	2/Month	24-hr. Comp.	
Copper, Total	----	0.35			mg/L	Quarterly	24-hr. Comp.	
Fluoride, Total	----	3.0			mg/L	2/Month	24-hr. Comp.	
Iron, Total	1.0	2.0			mg/L	2/Month	24-hr. Comp.	
Magnesium, Total	35	60			mg/L	2/Month	24-hr. Comp.	
Manganese, Total	----	0.6			mg/L	Weekly	24-hr. Comp.	
Nickel, Total	----	0.2			mg/L	Quarterly	24-hr. Comp.	
Zinc, Total	----	3.2			mg/L	Quarterly	24-hr. Comp.	
Sulfate, Total (as S)	----	500			mg/L	2/Month	24-hr. Comp.	
Chlorine, Total Residual	----	0.050			mg/L	Weekly	Grab	(7)
Mercury, Total	----	50			ng/L	Quarterly	Grab	(2)
Whole Effluent Toxicity (WET) Testing								
WET - Acute Invertebrate				3.0	TUa	Quarterly	See footnote 1	(1)
WET - Acute Vertebrate				3.0	TUa	Quarterly	See footnote 1	(1)
WET - Chronic Invertebrate				10	TUc	Quarterly	See footnote 1	(1)
WET - Chronic Vertebrate				10	TUc	Quarterly	See footnote 1	(1)

FOOTNOTES: See page 10 of this Permit.

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
02A	Oil Separator (process oil, fuel oil storage area)	Seneca Lake & Groundwater	10/01/2019	09/30/2022

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		COMPLIANCE LEVEL/ ML	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max						
Flow Rate	----	Monitor			GPD	Monthly	Estimated	
Oil & Grease	----	15			mg/L	Monthly	Grab	

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
02B	Boiler Water Final Rinse	Seneca Lake & Groundwater	10/01/2019	09/30/2022

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	Each Discharge	Grab	

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		COMPLIANCE LEVEL/ ML	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max						
Flow Rate	----	Monitor			MGD	Each Discharge	Calculated	
Solids, Total Suspended (TSS)	----	Monitor			mg/L	Each Discharge	Grab	
Oil & Grease	----	15			mg/L	Each Discharge	Grab	
Copper, Total	----	0.35			mg/L	Each Discharge	Grab	
Iron, Total	----	1.0			mg/L	Each Discharge	Grab	

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
02C	Coal Pile Runoff, Fly Ash Hopper Decant, Demineralizer Regenerate Wastewater, Maintenance Cleaning Wastewater – treated and batch discharged to Ash Pond.	Seneca Lake & Groundwater	10/01/2019	09/30/2022

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	Weekly	Grab	

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		COMPLIANCE LEVEL/ ML	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max						
Flow Rate	Monitor	Monitor			MGD	Continuous	Recorded	
Solids, Total Suspended (TSS)	30	50			mg/L	Weekly	24-hr. Comp.	
Oil & Grease	----	15			mg/L	Weekly	Grab	
Aluminum, Total	2.0	4.0			mg/L	Weekly	24-hr. Comp.	
Arsenic, Total	----	0.050			mg/L	Weekly	24-hr. Comp.	
Chromium, Total	----	0.10			mg/L	Weekly	24-hr. Comp.	
Copper, Total	----	0.35			mg/L	Weekly	24-hr. Comp.	
Iron, Total	1.0	2.0			mg/L	Weekly	24-hr. Comp.	
Nickel, Total	----	0.20			mg/L	Weekly	24-hr. Comp.	
Zinc, Total	0.50	1.0			mg/L	Weekly	24-hr. Comp.	
Selenium, Total	0.020	Monitor			mg/L	Weekly	24-hr. Comp.	(8)
Ammonia (as NH_3)	----	Monitor			mg/L	Monthly	24-hr. Comp.	
Sulfate	----	Monitor			mg/L	Monthly	24-hr. Comp.	
Magnesium, Total	----	Monitor			mg/L	Monthly	24-hr. Comp.	
Manganese, Total	0.60	Monitor			mg/L	Weekly	24-hr. Comp.	(8)
Mercury, Total	----	50			ng/L	Quarterly	Grab	(2)

FOOTNOTES: See page 10 of this Permit.

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
02D	Treated Maintenance Cleaning Wastewater – batch discharged via 02C to Ash Pond	Seneca Lake & Groundwater	10/01/2019	09/30/2022

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	Weekly	Grab	

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		COMPLIANCE LEVEL/ ML	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max						
Flow Rate	Monitor	Monitor			MGD	Continuous	Recorded	
Solids, Total Suspended	30	100			mg/L	Weekly	24 hr. Comp.	
Oil & Grease	-----	15			mg/L	Weekly	Grab	
Copper, Total	-----	0.35			mg/L	Weekly	24 hr. Comp.	
Iron, Total	1.0	1.0			mg/L	Weekly	24 hr. Comp.	

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
02E	Process Equipment Cooling Water, In-Plant drain Collection Sump	Seneca Lake & Groundwater	10/01/2019	09/30/2022

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		COMPLIANCE LEVEL/ ML	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max						
NO MONITORING REQUIRED								

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
02F	Plant Feedwater Make-up Treatment	Seneca Lake & Groundwater	10/01/2019	09/30/2022

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		COMPLIANCE LEVEL/ ML	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max						
Flow Rate	Monitor	Monitor			MGD	Continuous	Recorded	

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
02G	Bottom Ash Sluice System	Seneca Lake & Groundwater	10/01/2019	09/30/2022

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	Weekly	Grab	

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		COMPLIANCE LEVEL/ ML	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max						
Flow Rate	Monitor	Monitor			MGD	Continuous	Recorded	
Solids, Total Suspended	----	Monitor			mg/L	Weekly	Grab	
Aluminum, Total	----	Monitor			mg/L	Monthly	Grab	
Iron, Total	----	Monitor			mg/L	Monthly	Grab	
Magnesium, Total	----	Monitor			mg/L	Monthly	Grab	
Manganese, Total	----	Monitor			mg/L	Monthly	Grab	
Vanadium	----	Monitor			µg/L	Monthly	Grab	
Phenolics, Total	----	Monitor			µg/L	Monthly	Grab	(10)
Mercury, Total	----	50			ng/L	Quarterly	Grab	(2)

FOOTNOTES: See page 10 of this Permit.

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
02H	North Yard Drain Sump and East Yard Drain Sump	Seneca Lake & Groundwater	10/01/2019	09/30/2022

PARAMETER	EFFLUENT LIMIT or CALCULATED LEVEL		COMPLIANCE LEVEL/ ML	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg	Daily Max						
Flow Rate	Monitor	Monitor			MGD	Continuous	Recorded	(9)

FOOTNOTES: See page 10 of this Permit.

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
021	Roof Drains	Seneca Lake & Groundwater	10/01/2019	09/30/2022
NO MONITORING REQUIRED				

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
005	Stormwater and Groundwater Discharge	Seneca Lake	10/01/2019	09/30/2022
NO MONITORING REQUIRED				

FOOTNOTES:

1. **Whole Effluent Toxicity (WET) Testing:**
Testing Requirements - WET testing shall consist of **Chronic only testing**. Acute toxicity (LC50 or EC50) is derived from the 48hr survival in the chronic test. WET testing shall be performed in accordance with 40 CFR Part 136 and TOGS 1.3.2 unless prior written approval has been obtained from the Department. The test species shall be *Ceriodaphnia dubia* (water flea - invertebrate) and *Pimephales promelas* (fathead minnow - vertebrate). Receiving water collected upstream from the discharge should be used for dilution. All tests conducted should be static-renewal (two 24 hr composite samples with one renewal for Acute tests and three 24 hr composite samples with two renewals for Chronic tests). The appropriate dilution series bracketing the IWC and including one exposure group of 100% effluent should be used to generate a definitive test endpoint, otherwise an immediate rerun of the test is required. WET testing shall be coordinated with the monitoring of chemical and physical parameters limited by this permit so that the resulting analyses are also representative of the sample used for WET testing. The ratio of critical receiving water flow to discharge flow (i.e. dilution ratio) is **10:1** for acute and is **10:1** for chronic. Discharges which are disinfected using chlorine should be dechlorinated prior to WET testing or samples shall be taken immediately prior to the chlorination system.

   Monitoring Period - WET testing shall be performed at the specified sample frequency **during calendar years ending in 3 and 8, beginning in January and lasting for a period of one full year.**

   Reporting - Toxicity Units shall be calculated and reported on the DMR as follows: TUa = (100)/(48 hr LC50) or (100)/(48 hr EC50) (note that Acute data is generated by both Acute and Chronic testing) and TUc = (100)/(NOEC) when Chronic testing has been performed or TUc = (TUa) x (10) when only Acute testing has been performed and is used to predict Chronic test results, where the 48 hr LC50 or 48 hr EC50 and NOEC are expressed in % effluent. This must be done for both species and using the Most Sensitive Endpoint (MSE) or the lowest NOEC and corresponding highest TUc. Report a TUa of 0.3 if there is no statistically significant toxicity in 100% effluent as compared to control.

   The complete test report including all corresponding results, statistical analyses, reference toxicity data, daily average flow at the time of sampling and other appropriate supporting documentation, shall be submitted within 60 days following the end of each test period to the Toxicity Testing Unit, Bureau of Watershed Assessment and Management, 625 Broadway, Fourth Floor, Albany, NY 12233-3502. A summary page of the test results for the invertebrate and vertebrate species indicating TUa, 48 hr LC50 or 48 hr EC50 for Acute tests and/or TUc, NOEC, IC25, and most sensitive endpoints for Chronic tests, should also be included at the beginning of the test report.

   WET Testing Action Level Exceedances - If an action level is exceeded then the Department may require the permittee to conduct additional WET testing including Acute and/or Chronic tests. Additionally, the permittee may be required to perform a Toxicity Reduction Evaluation (TRE) in accordance with Department guidance. If such additional testing or performance of a TRE is necessary, the permittee shall be notified in writing by the Regional Water Engineer. The written notification shall include the reason(s) why such testing or a TRE is required.

2. EPA Method 1631 is required for Mercury Sampling.

3. Monitored by recording the operating mode of the circulating water pumps.

4. Shall be measured continuously during periods of chlorination.

5. Summer is defined for this permit, unless stated otherwise, as May 1st to October 31st. Winter is all other dates not so defined.

6. Shall be sampled from May 1st to October 31st.

7. Total residual chlorine monitoring and limitations are not currently effective at Outfall 002. See Special Condition #2 for applicability.

8. **Interim limits of 0.06 mg/l for Total Selenium** at Outfall 02C, and **2.0 mg/l for Total Manganese** at Outfall 02C will be applied in accordance with the Schedule of Compliance on **Page 23.**

9. Monitored by recording the operating mode of the wastewater pumps.

10. Shall be measured by 4-aminoantipyrine (4-AAP) test method.

SPECIAL CONDITIONS:

1. The permittee shall notify the Regional Water Engineer (address listed on page 30) within 72 hours of commencing operations of the facility's bottom ash sluice system. If operations of the bottom ash sluice system commence, the permittee shall submit an approvable engineering report prepared by a professional engineer, currently registered in the State of New York, to evaluate and propose treatment methods for Total Iron being discharged through Outfall 02G. The submittal shall be sent to NYSDEC offices in Avon and Albany at the addresses listed on Page 30 of this Permit. **Due date for this submittal shall be two (2) months after commencement of bottom ash sluice system operations.**

2. Monitoring for total residual chlorine is not required at Outfall 002 unless the permittee commences use of chlorine at Outfall 002. The permittee must notify the Department and submit an approvable engineering report regarding the chlorination system 60 days prior to the commencement of using chlorine at Outfall 002. Use of chlorine at Outfall 002 is not authorized unless the permittee obtains Department approval.

A. ADDITIONAL REQUIREMENTS

1. Total residual chlorine shall not be discharged from a single generating unit for more than two hours per day. Chlorination shall occur during daylight hours only.

2. The permittee shall, within 60 days of the end of each month, submit to the NYSDEC offices in Avon and Albany at the addresses listed on Page 30 of this Permit, a monthly report for the following:
   a. Daily minimum, maximum and average station electrical output shall be determined and logged.
   b. Daily total water use shall be directly or indirectly measured as calculated and logged.
   c. Temperature of the intake and discharges shall be measured and recorded continuously. Daily maximum and average intake and discharge temperatures and daily average and maximum heat discharge rates shall be logged and reported.

3. There shall be no discharge of PCB's from this facility.

4. No biocides, dyes, corrosion control chemicals or other water treatment chemical additives are authorized for use by the permittee except for those approved by the Department in accordance with the Water Treatment Chemical (WTC) Usage Notification Requirements. New or increased use of a WTC requires prior DEC review and authorization.

5. The spent chemical cleaning water and rinse water associated with the ammoniated EDTA and Citrosolv boiler cleaning processes may be discharged provided the effluent limitations for the corresponding outfalls are met.

6. The rinse water associated with the hydrochloric acid boiler cleaning process may be discharged provided the effluent limitations of the corresponding outfalls are met.

7. The treated or untreated spent chemical cleaning water associated with the hydrochloric acid boiler cleaning process shall not be discharged.

8. **[This item left intentionally blank.]**

9. **Thermal Discharge Study**

   A. Thermal Criteria Study Schedule

   By EDP + 3 months, the permittee must submit an updated schedule to the Thermal Discharge Study Plan that was submitted January 27, 2011 and approved February 8, 2011. The Schedule must include a schedule for conducting field studies, thermal modeling and submission of an approvable Thermal Criteria Study Report (Report). When proposing the schedule, the field study shall be conducted within one year of NYSDEC approval of the schedule and the final Report shall be submitted to NYSDEC within three months of completion of field study.

   B. Thermal Standard Study Requirement

   Following Department review of the final *Thermal Criteria Study Report*, if any of the thermal criteria identified in NYCRR §704.2 are exceeded, the permittee will be notified by the Department that they will be required to either: (1) bring the thermal discharge into compliance with the exceeded criteria; or (2) submit an application for a variance to the thermal criteria according to the procedures detailed in 6 NYCRR §704.4. If the permittee requests a thermal variance, additional studies may be required, such as investigation of impact assessment for receiving water biota or an evaluation of compliance with the thermal standard contained in 6 NYCRR §704.1 and Section 316(a) of the Clean Water Act. If a thermal variance is approved, the permittee must request renewal of the variance during each subsequent permit renewal. The permittee must be prepared to provide documentation supporting the need for the variance if the Department requests such documentation. If, during the renewal request, the Department determines that there are signs of impairment as a result of the discharge, then the Department may require additional treatment of, or a change in, the thermal discharge.

   The Workplan and final Report (3 copies of each) shall be submitted to: NYSDEC, Division of Water, Section Chief – Wastewater Permits West, Bureau of Water Permits, 4th Floor, 625 Broadway, Albany, New York 12233-3505.

10. Because of the possible attraction of fish to the warmed water in the Keuka Lake Outlet, and the possibility of inducing cold shock to these fish in the event of rapid plant shutdown during the period between November 1 and April 30, the following operational requirements shall be instituted relative to normal plant operation and plant shutdown.

    a. When the unit is taken off line, cessation of cooling water flow will become part of the shutdown procedure and should occur no sooner than 10 hours after generation ceases.
    b. By October 15 of each year, the permittee will submit to the fisheries manager in Avon the schedule for all outages for the coming period. If no outages are planned, the permittee will so state.

    The above shutdown requirements may be modified or deleted if the permittee shows to the Department's satisfaction that these requirements are overly restrictive and not needed to protect the aquatic environment.

11. **Groundwater Monitoring Program (GWMP) for Ash Pond:**
    The permittee shall submit annual reports to the Department by April 1st of each calendar year. The report shall follow the Groundwater Monitoring Plan submitted by AMEC Geomatrix, Inc. on July 29, 2010, and approved on February 23, 2011. The annual report shall consist of: (a) a description of the current ash pond operation including source(s) and discharges to pond, which include bottom ash sluice system discharge, treated coal pile runoff and any other discharges to the ash pond; (b) sampling results and comparison to the groundwater standards contained in 6 NYCRR Part 703 – New York State Groundwater and Division of Water Technical Guidance Series (1.1.1) for Ambient Water Quality Standards and Guidance Values and Groundwater Effluent limitations; (c) assessment of the impact of ash pond to the groundwater; (d) location of monitoring wells, and (e) suggestions to alleviate any concluded impact to the groundwater identified.

12. **Dilution Study:**
    The purpose of the Dilution Study is to determine the near-field and far-field dilution factors in the ambient water (Seneca Lake). The dilution factors will be used in refining the current water quality based effluent limits (WQBEL) for Outfall 002 and its Sub-Outfalls, 02A-021. The permittee shall submit an Alternatives Evaluation Report to determine the most appropriate method for completing the Dilution Study by EDP + 6 months for review and approval by the Department. By the **EDP + 2 years**, the permittee must submit a Dilution Study Work Plan of the Dilution Study, prepared by a Professional Engineer currently licensed to practice in New York State, for review and approval. The work plan shall include a schedule for the Dilution Study. If the Department approves the work plan, the approved schedule will become an enforceable schedule.

    At the conclusion of the Dilution Study, the permittee must submit a report summarizing the results of the study, which shall include dilution profiles for the near-field and far-field areas that will be used in estimating acute and chronic dilutions. The Department reserves the right to modify WQBELs pending the result of the report.

B. BIOLOGICAL MONITORING REQUIREMENTS

All submissions under this section should provide:
Two (2) copies to the Steam Electric Unit Leader;[1]
One (1) copy of the cover letter to the Division of Water State Pollution Discharge Elimination System (SPDES); Compliance Information Section at the address listed on **Page 30** of this Permit; and
One (1) copy of the cover letter to the Regional Water Engineer at the address listed on **Page 30** of this Permit,
unless otherwise noted.

Best Technology Available

1. The Department has determined that the best technology available (BTA) for the Greenidge Station cooling water intake structure is the use of cylindrical wedge-wire intake screens (slot size 0.5 mm $\leq$ 1.0 mm) and variable speed drive pumps (VSPs) at Unit 4. A pilot study is necessary to confirm that the facility can operate reliably with wedge wire screens in this slot range. If the Department determines that the 0.5 mm to 1.0 mm slot-width screens are problematic at this facility, a contingency plan to meet the performance requirements contained in this permit must then be submitted for Department review and approval (*see* Biological Monitoring Requirement No. 13).

Variable Speed Drives on Cooling Water Pumps

2. Within six (6) months of the effective date of the permit (EDP + 6 months), the permittee must provide a full description (including drawings) and schedule for installing and operating variable speed drives on the cooling water pumps at the Greenidge Station.

3. Within two (2) years of the effective date of the permit (EDP + 2 years), the permittee must complete the installation of the variable speed drives on the cooling water pumps at the Greenidge Station.

Cylindrical Wedge Wire Screen Pilot Study

4. Within six (6) months of the effective date of the permit (EDP + 6 months), the permittee must submit an approvable *Cylindrical Wedge-Wire Screen (CWWS) Pilot Study Plan* that includes:

a. Details on CWWS dimensions and operational specifications [*i.e.,* capacity, through-slot velocities (no greater than 0.5 fps), frequency of operation, proposed air burst/cleaning frequencies];
b. Frequency of screen operation;
c. A detailed schedule for the study, plans, drawings, and description of all work to be done for the installation, testing and determination of the efficacy of the intake screens;
d. Six-month progress reporting, and final report to be submitted within 6 months of the pilot study completion; and
e. Description of all data analyses, calculations, models, and statistics that may be used to optimize the operations of CWWS.

Upon receipt of Department approval, the permittee must implement the *Cylindrical Wedge-Wire Screen Pilot Study* in accordance with the approved plans. The *Cylindrical Wedge-Wire Screen Pilot Study Plan* will become an enforceable condition of this SPDES permit.

Technology Installation and Operation Plan

5. Within three (3) months of receiving Department approval of the final CWWS Study Report, the permittee must submit an approvable *Technology Installation and Operation Plan* (TIOP) to meet the best technology available requirements under 6 NYCRR Part 704.5 and Section 316(b) of the Clean Water Act (CWA). This plan must include:

   a. a full description (including drawings) and schedule for testing, installing and operating wedge wire intake screens selected to meet requirements of 6 NYCRR Part 704.5 and Section 316(b) CWA; and
   b. the methodology for assessing the efficacy of these technologies and operational measures;

[1] Steam Electric Unit Leader; Bureau of Habitat 5th Floor, Division of Fish, Wildlife, and Marine Resources; 625 Broadway; Albany, NY 12233-4756.

c. if the Department concurs that wedge wire screens with a slot size of 0.5 mm ≤ 1.0 mm are not feasible at this facility, then within 6 months of such notification, the TIOP shall be revised to include a Contingency Plan (*see* Biological Monitoring Requirement No. 13); and
d. Complete installation of CWWS by **Expiration Date of the Permit (ExDP).**

Upon receipt of Department approval, the permittee must implement the *Technology Installation and Operation Plan* in accordance with the approved schedule. The *Technology Installation and Operation Plan* and approved schedule will become an enforceable condition of this SPDES permit.

Verification Monitoring Plan

6. Within three (3) months of Department approval of the *Technology Installation and Operation Plan*, the permittee must submit an approvable *Verification Monitoring Plan*. This plan must include details of procedures to confirm that the necessary reductions in impingement and entrainment required by this permit are being achieved, and must include the following:

   a. At a minimum, two years of in-plant entrainment monitoring over a five-year averaging period to verify the full-scale performance of BTA measures;
   b. A description of the frequency and duration of monitoring, the parameters to be monitored, and the basis for determining the parameters and the frequency and duration for monitoring;
   c. A schedule of implementation; and
   d. A draft proposed Standard Operation Procedure (SOP) that describes the sampling protocols for these monitoring studies.

   The plan and SOP must be updated as required by the Department. Upon receipt of Department approval, the permittee must complete the *Verification Monitoring Plan* in accordance with the approved schedule. The *Verification Monitoring Plan* and approved schedule will become an enforceable condition of this SPDES permit.

7. Within six (6) months of the completion of the *Verification Monitoring Plan* studies the permittee must submit an approvable report to the Steam Electric Unit Leader that demonstrates compliance with 6 NYCRR Part 704.5 and Section 316(b) CWA.

Performance Requirements

8. The permittee must reduce entrainment of all life stages of fish at the Greenidge Generating Station by at least 85 percent upon complete installation and implementation of the BTA and completion of the Verification Monitoring Plan.

9. The permittee must annually reduce the impingement mortality of all life stages of fish at the Greenidge Generating Station by at least 95 percent upon the completion of installation of BTA.

   The permittee must determine the percent reductions in impingement mortality and entrainment by applying the calculation baseline for this facility as defined in Department Policy CP-52.

Additional Reporting Requirements

10. The permittee must maintain records of all data, reports and analysis pertaining to compliance with 6 NYCRR Part 704 and Section 316(b) of the CWA for a period no less than 10 years from EDP.

11. The permittee must submit status reports at EDP + 2.5 years and EDP + 4.5 years. At a minimum, these status reports must include a description of the operational status of the facility during the preceding two years and compliance with Biological Monitoring Requirements Nos. 1 through 7 of this permit.

General Requirement

12. Modification of the facility cooling water intake must not occur without prior Department approval. The permittee must submit written notification, including detailed descriptions and plans, to the NYS DEC Steam Electric Unit; the Director of the Bureau of Water Compliance Program; and both the Regional Permit Administrator and the Regional Water Engineer, Region 8, at least 60 days prior to any proposed change which would result in the alteration of the permitted operation, location, design, construction or capacity of the cooling water intake structure. The permittee must submit with the written notification a demonstration that the change reflects the best technology available for minimizing adverse environmental impacts pursuant

to 6 NYCRR § 704.5 and Section 316(b) of the CWA. As determined by NYSDEC, a permit modification application in accordance with 6 NYCRR Part 621 may be required.

Contingency Plan to Meet BTA Requirements

13. If the Department determines that use of cylindrical wedge wire intake screens with a slot size of 0.5 mm ≤ 1.0 mm is not feasible at this facility, within 6 months of the Department's notice, a Contingency Plan to meet the BTA requirements of 6 NYCRR Part 704.5 and Section 316(b) of the CWA must be submitted for the Department's review and approval. The focus of the plan shall be the utilization of wedge wire intake screens of alternate slot widths (1.0 mm > 2.0 mm). Upon Department approval, the Contingency Plan shall become part of the TIOP and an enforceable condition of this permit. Any contingency proposed must result in a reduction in impingement mortality and entrainment of no less than 85% from the calculation baseline for this facility as defined in Department Policy CP-52.

Deadline Extensions

14. Permittee may apply for extensions of the deadlines contained in the Biological Monitoring Requirements section of this Permit as provided for in 6NYCRR Part 750. Notwithstanding any extensions that may be granted by the Department, the completion of installation and operation of BTA shall not occur later than EDP + 5 years.

SPECIAL CONDITIONS – INDUSTRY BEST MANAGEMENT PRACTICES

1. **General** - The permittee shall develop, maintain, and implement a Best Management Practices (BMP) plan to prevent releases of significant amounts of pollutants to the waters of the State through plant site runoff; spillage and leaks; sludge or waste disposal; and stormwater discharges including, but not limited to, drainage from raw material storage. The BMP plan shall be documented in narrative form and shall include the 13 minimum BMPs and any necessary plot plans, drawings, or maps. Other documents already prepared for the facility such as a Safety Manual or a Spill Prevention, Control and Countermeasure (SPCC) plan may be used as part of the plan and may be incorporated by reference. A copy of the current BMP plan shall be submitted to the Department as required in item (2.) below and a copy must be maintained at the facility and shall be available to authorized Department representatives upon request.

2. **Compliance Deadlines** - The initial completed BMP plan was submitted to the Regional Water Engineer in October 2010 and was revised in June 2014. An updated BMP plan shall be **submitted within nine (9) months of EDP**. The BMP plan shall be implemented within 6 months of submission, unless a different time frame is approved by the Department. The BMP plan shall be reviewed annually and shall be modified whenever (a) changes at the facility materially increase the potential for releases of pollutants; (b) actual releases indicate the plan is inadequate, or (c) a letter from the Department identifies inadequacies in the plan. The permittee shall certify in writing, as an attachment to the December Discharge Monitoring Report (DMR), that the annual review has been completed. All BMP plan revisions (with the exception of SWPPPs - see item (5.) below) must be submitted to the Regional Water Engineer within 30 days. Note that the permittee is not required to obtain Department approval of the BMP plan (or of any SWPPPs) unless notified otherwise. Subsequent modifications to or renewal of this permit does not reset or revise these deadlines unless a new deadline is set explicitly by such permit modification or renewal.

3. **Facility Review** - The permittee shall review all facility components or systems (including but not limited to material storage areas; in-plant transfer, process, and material handling areas; loading and unloading operations; storm water, erosion, and sediment control measures; process emergency control systems; and sludge and waste disposal areas) where materials or pollutants are used, manufactured, stored or handled to evaluate the potential for the release of pollutants to the waters of the State. In performing such an evaluation, the permittee shall consider such factors as the probability of equipment failure or improper operation, cross-contamination of storm water by process materials, settlement of facility air emissions, the effects of natural phenomena such as freezing temperatures and precipitation, fires, and the facility's history of spills and leaks. The relative toxicity of the pollutant shall be considered in determining the significance of potential releases. The review shall address all substances present at the facility that are identified in Tables 6-10 of SPDES application Form NY-2C (available at http://www.dec.ny.gov/docs/permits_ej_operations_pdf/form2c.pdf) or that are required to be monitored for by the SPDES permit.

4. **13 Minimum BMPs:** Whenever the potential for a release of pollutants to State waters is determined to be present, the permittee shall identify BMPs that have been established to prevent or minimize such potential releases. Where BMPs are inadequate or absent, appropriate BMPs shall be established. In selecting appropriate BMPs, the permittee shall consider good industry practices and, where appropriate, structural measures such as secondary containment and erosion/sediment control devices and practices. USEPA guidance for development of stormwater elements of the BMP is available in *Developing Your Stormwater Pollution Prevention Plan A Guide for Industrial Operators*, February 2009, EPA 833-B-09-002. As a minimum, the plan shall include the following BMPs:

   1. BMP Pollution Prevention Team
   2. Reporting of BMP Incidents
   3. Risk Identification & Assessment
   4. Employee Training
   5. Inspections and Records
   6. Security
   7. Preventive Maintenance
   8. Good Housekeeping
   9. Materials/Waste Handling, Storage, & Compatibility
   10. Spill Prevention & Response
   11. Erosion & Sediment Control
   12. Management of Runoff
   13. Street Sweeping

   Note that for some facilities, especially those with few employees, some of the above BMPs may not be applicable. It is acceptable in these cases to indicate "Not Applicable" for the portion(s) of the BMP Plan that do not apply to your facility, along with an explanation.

SPECIAL CONDITIONS – INDUSTRY BEST MANAGEMENT PRACTICES (continued)

5. **Stormwater Pollution Prevention Plans (SWPPPs) Required for Discharges of Stormwater From Construction Activity to Surface Waters** - As part of BMP #11, a SWPPP shall be developed prior to the initiation of any site disturbance of one acre or more of uncontaminated area. Uncontaminated area means soils or groundwater which are free of contamination by any toxic or non-conventional pollutants identified in Tables 6-10 of SPDES application Form NY-2C. Disturbance of any size contaminated area(s) and the resulting discharge of contaminated stormwater is not authorized by this permit unless the discharge is under State or Federal oversight as part of a remedial program or after review by the Regional Water Engineer; nor is such discharge authorized by any SPDES general permit for stormwater discharges. SWPPPs are not required for discharges of stormwater from construction activity to groundwater. The SWPPP shall conform to the *New York Standards and Specifications for Erosion and Sediment Control* and *New York State Stormwater Management Design Manual,* unless a variance has been obtained from the Regional Water Engineer, and to any local requirements. The permittee shall submit a copy of the SWPPP and any amendments thereto to the local governing body and any other authorized agency having jurisdiction or regulatory control over the construction activity **at least 30 days prior to soil disturbance**. The SWPPP shall also be submitted to the Regional Water Engineer if contamination, as defined above, is involved and the permittee must obtain a determination of any SPDES permit modifications and/or additional treatment which may be required prior to soil disturbance. Otherwise, the SWPPP shall be submitted to the Department only upon request. When a SWPPP is required, a properly completed *Notice of Intent* (NOI) form shall be submitted (available at www.dec.ny.gov/chemical/43133.html) prior to soil disturbance. Note that submission of a NOI is required for informational purposes; the permittee is not eligible for and will not obtain coverage under any SPDES general permit for stormwater discharges, nor are any additional permit fees incurred. SWPPPs must be developed and submitted for subsequent site disturbances in accordance with the above requirements. The permittee is responsible for ensuring that the provisions of each SWPPP are properly implemented.

6. **Required Sampling For "Hot Spot" Identification** - Development of the BMP plan shall include sampling of waste stream segments for the purpose of pollutant "hot spot" identification. The economic achievability of effluent limits will not be considered until plant site "hot spot" sources have been identified, contained, removed or minimized through the imposition of site specific BMPs or application of internal facility treatment technology. For the purposes of this permit condition a "hot spot" is a segment of an industrial facility (including but not limited to soil, equipment, material storage areas, sewer lines etc.) which contributes elevated levels of problem pollutants to the wastewater and/or stormwater collection system of that facility. For the purposes of this definition, problem pollutants are substances for which treatment to meet a water quality or technology requirement may, considering the results of waste stream segment sampling, be deemed unreasonable. For the purposes of this definition, an elevated level is a concentration or mass loading of the pollutant in question which is sufficiently higher than the concentration of that same pollutant at the compliance monitoring location so as to allow for an economically justifiable removal and/or isolation of the segment and/or B.A.T. treatment of wastewaters emanating from the segment.

7. **Facilities with Petroleum and/or Chemical Bulk Storage (PBS and CBS) Areas** - Compliance must be maintained with all applicable regulations including those involving releases, registration, handling and storage (6NYCRR 595-599 and 612-614). Stormwater discharges from handling and storage areas should be eliminated where practical.

   A. Spill Cleanup - All spilled or leaked substances must be removed from secondary containment systems as soon as practical and for CBS storage areas within 24 hours, unless written authorization is received from the Department. The containment system must be thoroughly cleaned to remove any residual contamination which could cause contamination of stormwater and the resulting discharge of pollutants to waters of the State. Following spill cleanup the affected area must be completely flushed with clean water three times and the water removed after each flushing for proper disposal in an on-site or off-site wastewater treatment plant designed to treat such water and permitted to discharge such wastewater. Alternately, the permittee may test the first batch of stormwater following the spill cleanup to determine discharge acceptability. If the water contains no pollutants it may be discharged. Otherwise it must be disposed of as noted above. See *Discharge Monitoring* below for the list of parameters to be sampled for.

   B. Discharge Operation - Stormwater must be removed before it compromises the required containment system capacity. Each discharge may only proceed with the prior approval of the permittee staff person responsible for ensuring SPDES permit compliance. Bulk storage secondary containment drainage systems must be locked in a closed position except when the operator is in the process of draining accumulated stormwater. Transfer area secondary containment drainage systems must be locked in a closed position during all transfers and must not be reopened unless the transfer area is clean of contaminants. Stormwater discharges from secondary containment systems should be avoided during periods of precipitation. A logbook shall be maintained on site noting the date, time and personnel supervising each discharge.

C. Discharge Screening - Prior to each discharge from a secondary containment system the stormwater must be screened for contamination*. All stormwater must be inspected for visible evidence of contamination. Additional screening methods shall be developed by the permittee as part of the overall BMP Plan, e.g. the use of volatile gas meters to detect the presence of gross levels of gasoline or volatile organic compounds. If the screening indicates contamination, the permittee must collect and analyze a representative sample** of the stormwater. If the water contains no pollutants it may be discharged. Otherwise it must either be disposed of in an on-site or off-site wastewater treatment plant designed to treat and permitted to discharge such wastewater or the Regional Water Engineer can be contacted to determine if it may be discharged without treatment.

D. Discharge Monitoring - Unless the discharge from any bulk storage containment system outlet is identified in the SPDES permit as an outfall with explicit effluent and monitoring requirements, the permittee shall monitor the outlet as follows:

(i) *Bulk Storage Secondary Containment Systems:*

(a) The volume of each discharge from each outlet must be monitored. Discharge volume may be calculated by measuring the depth of water within the containment area times the wetted area converted to gallons or by other suitable methods. A representative sample shall be collected of the first discharge* following any cleaned up spill or leak. The sample must be analyzed for pH, the substance(s) stored within the containment area and any other pollutants the permittee knows or has reason to believe are present**.

(b) Every fourth discharge* from each outlet must be sampled for pH, the substance(s) stored within the containment area and any other pollutants the permittee knows or has reason to believe are present**.

(ii) *Transfer Area Secondary Containment Systems:*

The first discharge* following any spill or leak must be sampled for flow, pH, the substance(s) transferred in that area and any other pollutants the permittee knows or has reason to believe are present**.

E. Discharge Reporting - Any results of monitoring required above, excluding screening data, must be submitted to the Department by appending them to the corresponding DMR. Failure to perform the required discharge monitoring and reporting shall constitute a violation of the terms of the SPDES permit.

F. Prohibited Discharges - **In all cases, any discharge which contains a visible sheen, foam, or odor, or may cause or contribute to a violation of water quality is prohibited.** The following discharges are prohibited unless specifically authorized elsewhere in this SPDES permit: spills or leaks, tank bottoms, maintenance wastewaters, wash waters where detergents or other chemicals have been used, tank hydrotest and ballast waters, contained firefighting runoff, fire training water contaminated by contact with pollutants or containing foam or fire retardant additives, and unnecessary discharges of water or wastewater into secondary containment systems.

* Discharge includes stormwater discharges and snow and ice removal. If applicable, a representative sample of snow and/or ice should be collected and allowed to melt prior to assessment.

** If the stored substance is gasoline or aviation fuel then sample for oil & grease, benzene, ethylbenzene, naphthalene, toluene and total xylenes (EPA method 602). If the stored substance is kerosene, diesel fuel, fuel oil, or lubricating oil then sample for oil & grease and polynuclear aromatic hydrocarbons (EPA method 610). If the substance(s) are listed in Tables 6-8 of SPDES application form NY-2C then sampling is required. If the substance(s) are listed in NY-2C Tables 9-10 sampling for appropriate indicator parameters may be required, e.g. BOD5 or toxicity testing. Contact the facility inspector for further guidance. In all cases flow and pH monitoring is required.

MERCURY MINIMIZATION PROGRAM – Industrial Facilities

1. **General** - The permittee shall develop, implement, and maintain a Mercury Minimization Program (MMP) for those outfalls which have mercury effluent limits. The MMP is required because the 50 ng/L permit limit exceeds the statewide water quality based effluent limit (WQBEL) of 0.70 nanograms/liter (ng/L) for Total Mercury. The goal of the MMP is to reduce mercury effluent levels in pursuit of the WQBEL. Note – the mercury-related requirements in this permit conform to the mercury Multiple Discharge Variance specified in NYSDEC policy *DOW 1.3.10*.

2. **MMP Elements** - The MMP shall be documented in narrative form and shall include any necessary drawings or maps. Other related documents already prepared for the facility may be used as part of the MMP and may be incorporated by reference. At a minimum, the MMP shall include an on-going program consisting of: periodic monitoring; an acceptable control strategy which will become enforceable under this permit; and, submission of annual status reports.

A. Monitoring - The permittee shall conduct periodic monitoring designed to quantify and, over time, track the reduction of mercury. Wastewater treatment plant influents and effluents, and other outfalls shall be monitored in accordance with the minimum frequency specified on the mercury permit limits page. Additionally, key locations in the wastewater and/or stormwater collection systems, and known or potential mercury sources, including raw materials, shall be monitored at the above frequency during the first year of the MMP. Monitoring of key locations and known/potential sources may be reduced during subsequent years if downstream outfalls have maintained mercury levels less than 50 ng/l during the previous year. Additional monitoring must be completed as may be required elsewhere in this permit or upon Department request. Monitoring shall be coordinated so that the results can be effectively compared between internal locations and final outfalls.

All permit-related wastewater and stormwater mercury compliance point (outfall) monitoring shall be performed using EPA Method 1631. Use of EPA Method 1669 during sample collection is recommended. Unless otherwise specified, all samples should be grabs. Monitoring at influent and other locations tributary to compliance points may be performed using either EPA Methods 1631 or 245.7. Monitoring of raw materials, equipment, treatment residuals, and other non-wastewater/non-stormwater substances may be performed using other methods as appropriate.

B. Control Strategy - An acceptable control strategy is required for reducing mercury discharges via cost-effective measures, which may include, but is not limited to: source identification; replacement of mercury-containing equipment, materials, and products with mercury-free alternatives where environmentally preferable; more stringent control of tributary waste streams; remediation; and/or installation of new or improved treatment facilities. Required monitoring shall also be used, and supplemented as appropriate, to determine the most effective way to operate the wastewater treatment system(s) to ensure effective removal of mercury while maintaining compliance with other permit requirements.

C. Annual Status Report - An annual status report shall be submitted to the Regional Water Engineer and to the Bureau of Water Permits, 625 Broadway, Albany, N.Y. 12233-3505, summarizing: (a) all MMP monitoring results for the previous year; (b) a list of known and potential mercury sources; (c) all action undertaken pursuant to the strategy during the previous year; (d) actions planned for the upcoming year; and (e) progress toward the goal. Annual reports for the previous year are **due by April 1**. A file shall be maintained containing all MMP documentation which shall be available for review by NYSDEC representatives. Copies shall be provided upon request.

3. **MMP Modification** - The MMP shall be modified whenever: (a) changes at the facility or within the collection system increase the potential for mercury discharges; (b) actual discharges exceed 50 ng/L; (c) a letter from the Department identifies inadequacies in the MMP; or (d) pursuant to a permit modification.

DISCHARGE NOTIFICATION REQUIREMENTS

(a) Except as provided in (c) and (g) of these Discharge Notification Act requirements, the permittee shall install and maintain identification signs at all outfalls to surface waters listed in this permit. Such signs shall be installed before initiation of any discharge.

(b) Subsequent modifications to or renewal of this permit does not reset or revise the deadline set forth in (a) above, unless a new deadline is set explicitly by such permit modification or renewal.

(c) The Discharge Notification Requirements described herein do not apply to outfalls from which the discharge is composed exclusively of storm water, or discharges to ground water.

(d) The sign(s) shall be conspicuous, legible and in as close proximity to the point of discharge as is reasonably possible while ensuring the maximum visibility from the surface water and shore. The signs shall be installed in such a manner to pose minimal hazard to navigation, bathing or other water related activities. If the public has access to the water from the land in the vicinity of the outfall, an identical sign shall be posted to be visible from the direction approaching the surface water.

The signs shall have **minimum** dimensions of eighteen inches by twenty-four inches (18" x 24") and shall have white letters on a green background and contain the following information:

N.Y.S. PERMITTED DISCHARGE POINT

SPDES PERMIT No.: NY_____

OUTFALL No. :____

For information about this permitted discharge contact:

Permittee Name: _____

Permittee Contact: _____

Permittee Phone: ( ) - ### - ####

OR:

NYSDEC Division of Water Regional Office Address:

NYSDEC Division of Water Regional Phone: ( ) - ### -####

(e) For each discharge required to have a sign in accordance with a), the permittee shall, concurrent with the installation of the sign, provide a repository of copies of the Discharge Monitoring Reports (DMRs), as required by the **RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS** page of this permit. This repository shall be open to the public, at a minimum, during normal daytime business hours. The repository may be at the business office repository of the permittee or at an off-premises location of its choice (such location shall be the village, town, city or county clerk's office, the local library or other location as approved by the Department). In accordance with the **RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS** page of your permit, each DMR shall be maintained on record for a period of five years

(f) The permittee shall periodically inspect the outfall identification sign(s) in order to ensure they are maintained, are still visible, and contain information that is current and factually correct. Signs that are damaged or incorrect shall be replaced within 3 months of inspection.

DISCHARGE NOTIFICATION REQUIREMENTS (continued)

(g) All requirements of the Discharge Notification Act, including public repository requirements, are waived for any outfall meeting any of the following circumstances, provided Department notification is made in accordance with (h) below:

(i) such sign would be inconsistent with any other state or federal statute;

(ii) the Discharge Notification Requirements contained herein would require that such sign could only be located in an area that is damaged by ice or flooding due to a one-year storm or storms of less severity;

(iii) instances in which the outfall to the receiving water is located on private or government property which is restricted to the public through fencing, patrolling, or other control mechanisms. Property which is posted only, without additional control mechanisms, does not qualify for this provision;

(iv) instances where the outfall pipe or channel discharges to another outfall pipe or channel, before discharge to a receiving water; or

(v) instances in which the discharge from the outfall is located in the receiving water, two-hundred or more feet from the shoreline of the receiving water.

(h) If the permittee believes that any outfall which discharges wastewater from the permitted facility meets any of the waiver criteria listed in (g) above, notification (form enclosed) must be made to the Department's Bureau of Water Permits, 625 Broadway, Albany, N.Y. 12233-3505, of such fact, and, provided there is no objection by the Department, a sign and DMR repository for the involved outfall(s) are not required. This notification must include the facility's name, address, telephone number, contact, permit number, outfall number(s), and reason why such outfall(s) is waived from the requirements of discharge notification. The Department may evaluate the applicability of a waiver at any time, and take appropriate measures to assure that the ECL and associated regulations are complied with.

SCHEDULE OF COMPLIANCE

a) The permittee shall comply with the following schedule:

Outfall(s)	Parameter(s) Affected	Interim Effluent Limit(s)	Compliance Action	Due Date
02C	Total Selenium Total Manganese	0.06 mg/l 2.0 mg/l	**Compliance with Permit Limits:** The permittee shall submit an approvable engineering report prepared by a professional engineer, currently registered in the State of New York, to evaluate and propose treatment methods to meet the limitations in this permit. Submit interim status reports regarding the status of compliance. Meet the final limits specified on **Page 7** of this permit. Interim limits expire.	EDP + 7 months EDP + 12, 21, and 30 months EDP + 39 months
NA	NA	NA	**Variable Speed Drives on Cooling Water Pumps:** The installation of variable speed drives on the cooling water pumps must be completed.	EDP + 2 years

The above compliance actions are one-time requirements. The permittee shall comply with the above compliance actions to the Department's satisfaction once. When this permit is administratively renewed by NYSDEC letter entitled "SPDES NOTICE/RENEWAL APPLICATION/PERMIT," the permittee is not required to repeat the submission(s) noted above. The above due dates are independent from the effective date of the permit stated in the "SPDES NOTICE/RENEWAL APPLICATION/PERMIT" letter.

b) For any action where the compliance date is greater than nine (9) months past the previous compliance due date, the permittee shall submit interim progress reports to the Department every nine (9) months until the due date for these compliance items are met.

c) The permittee shall submit a written notice of compliance or non-compliance with each of the above schedule dates no later than 14 days following each elapsed date, unless conditions require more immediate notice as prescribed in 6 NYCRR Part 750-1.2(a) and 750-2. All such compliance or non-compliance notification shall be sent to the locations listed under the section of this permit entitled RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS. Each notice of non-compliance shall include the following information:

1. A short description of the non-compliance;
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirements without further delay and to limit environmental impact associated with the non-compliance;
3. A description or any factors which tend to explain or mitigate the non-compliance; and
4. An estimate of the date the permittee will comply with the elapsed schedule requirement and an assessment of the probability that the permittee will meet the next scheduled requirement on time.

d) The permittee shall submit copies of any document required by the above schedule of compliance to the NYSDEC Regional Water Engineer at the location listed under the section of this permit entitled RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS and to the Bureau of Water Permits, 625 Broadway, Albany, N.Y. 12233-3505, unless otherwise specified in this permit or in writing by the Department.

SCHEDULE OF SUBMITTALS

a) The permittee shall submit the following information to the Regional Water Engineer at the address listed on the Recording, Reporting and Monitoring page of this Permit, and to the Bureau of Water Permits, 625 Broadway, Albany, N.Y. 12233-3505:

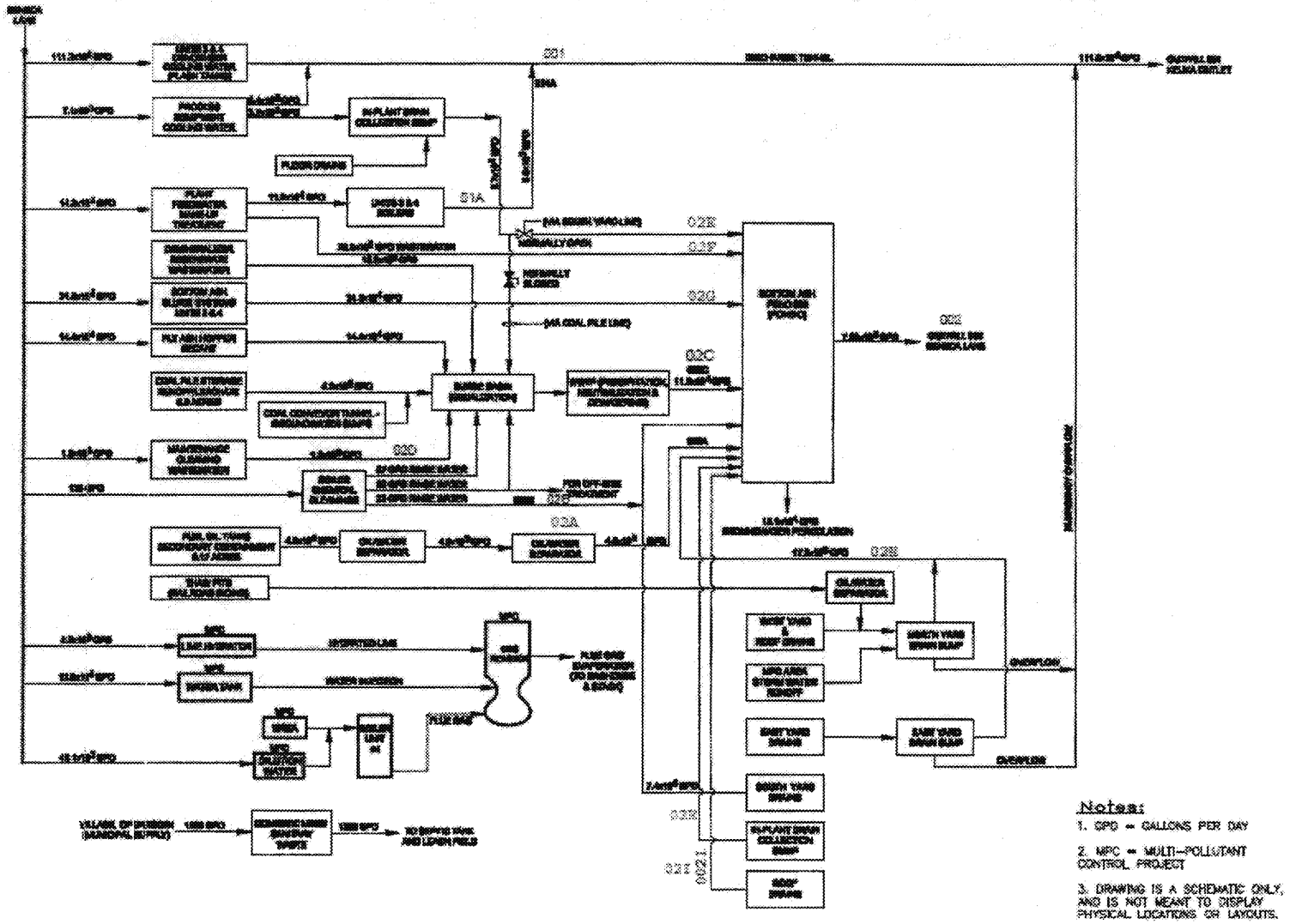
Outfall(s)	Parameter(s) Affected	Required Action	Due Date
02C	Ammonia (as NH_3) Total Magnesium Sulfate	The permittee shall collect 10 days of 24-hour composite samples representative of normal discharge conditions and treatment plant operations for the identified parameters. The permittee shall use the approved EPA analytical method with the lowest possible detection limit as promulgated under 40 CFR Part 136 for the determination of the concentrations of parameters listed. The permittee shall submit a summary of the results of the analyses to the addresses listed above.	EDPM + 6 months
NA	NA	**Monthly Report:** The permittee shall submit a monthly report that meets the requirements set in Additional Requirement #2 **on page 12** of this permit.	Within 60 days of the end of each month
NA	NA	**Groundwater Monitoring Program for Ash Pond (GWMP):** Submit annual GWMP Report in accordance with Additional Requirement #11 on **Page 13** of this permit.	By April 2018 and annually thereafter
002	NA	**Dilution Study:** The permittee shall submit an Alternatives Evaluation Report to determine the most appropriate method for completing the Dilution Study. The Department shall review and approve the Alternatives Evaluation Report. The permittee shall submit an approvable Dilution Study Work Plan. The Work Plan shall be prepared by a Professional Engineer currently licensed to practice in New York State. The Work Plan must include a schedule for the Dilution Study. If the Department approves the Work Plan, the approved schedule will become an enforceable schedule.	EDP + 6 months EDP + 2 years
001	NA	**Thermal Study:** The permittee must submit an updated schedule to the Thermal Discharge Study Plan. Upon receipt of Department approval of the updated schedule, the permittee must complete the study and submit the Final Reports in accordance with the approved schedule.	EDP + 3 months
NA	NA	**Variable Speed Drives on Cooling Water Pumps:** Submit a full description (including drawings) and schedule for installing and operating variable speed drives on cooling water pumps at the Greenidge Station.	EDP + 6 months
NA	NA	**Cylindrical Wedge Wire Screen (CWWS) Pilot Study:** An approvable pilot study plan shall be submitted that includes the requirements stated on **Page 14** of this permit. Upon receipt of Department approval, the *CWWS pilot study* shall be implemented in accordance with the approved plans.	EDP + 6 months

Outfall(s)	Parameter(s) Affected	Required Action	Due Date
NA	NA	**Technology Installation and Operation Plan (TIOP):** An approvable plan to meet the best technology available requirements under 6 NYCRR Part 704.5 and Section 316(b) of the Clean Water Act (CWA) shall be submitted. This plan shall include the requirements stated on **pages 14 and 15** of this permit. Upon receipt of Department approval, the *TIOP* shall be implemented in accordance with the approved plans.	Within 3 months of receiving Department notification
NA	NA	**Verification Monitoring Plan (VMP):** An approvable plan that must include details of procedures to confirm the necessary reductions in impingement and entrainment required by this permit are being achieved. The necessary reductions can be found under *Performance Requirements* on **Page 15** of this permit. Submit an approvable report to the Steam Electric Unit Leader that demonstrates compliance with 6 NYCRR Part 704.5 and Section 316(b) of the Clean Water Act.	TIOP approval + 3 months Within 6 months of VMP study approval
NA	NA	**Operation Status Reports:** At a minimum, these reports must include a description of the operational status of the facility during the preceding two (2) years, and compliance with Biological Monitoring Requirements numbers 1-7, on **Pages 14 and 15** of this permit.	EDP + 2.5 years and EDP + 4.5 years
NA	NA	**Contingency Plan to Meet BTA Requirements:** If the Department determines that use of cylindrical wedge wire intake screens with a slot size of 0.5 mm $\leq$ 1.0 mm is not feasible, a contingency plan to meet the BTA requirements of 6 NYCRR Part 704.5 and Section 316(b) of the Clean Water Act must be submitted for the Department's review and approval. Upon approval, the Contingency Plan shall become part of the Technology Installation and Operation Plan (TIOP), and an enforceable condition of this permit.	Within 6 months of Department notification
NA	NA	**Completion of BTA:** Installation and operation of BTA must be completed.	EDP + 5 years

b) Unless noted otherwise, the above actions are one-time requirements. The permittee shall submit the results of the above actions to the satisfaction of the Department. When this permit is administratively renewed by NYSDEC letter entitled "SPDES NOTICE/RENEWAL APPLICATION/PERMIT", the permittee is not required to repeat the above submittal(s), unless noted otherwise. The above due dates are independent from the effective date of the permit stated in the letter of "SPDES NOTICE/RENEWAL APPLICATION/PERMIT."

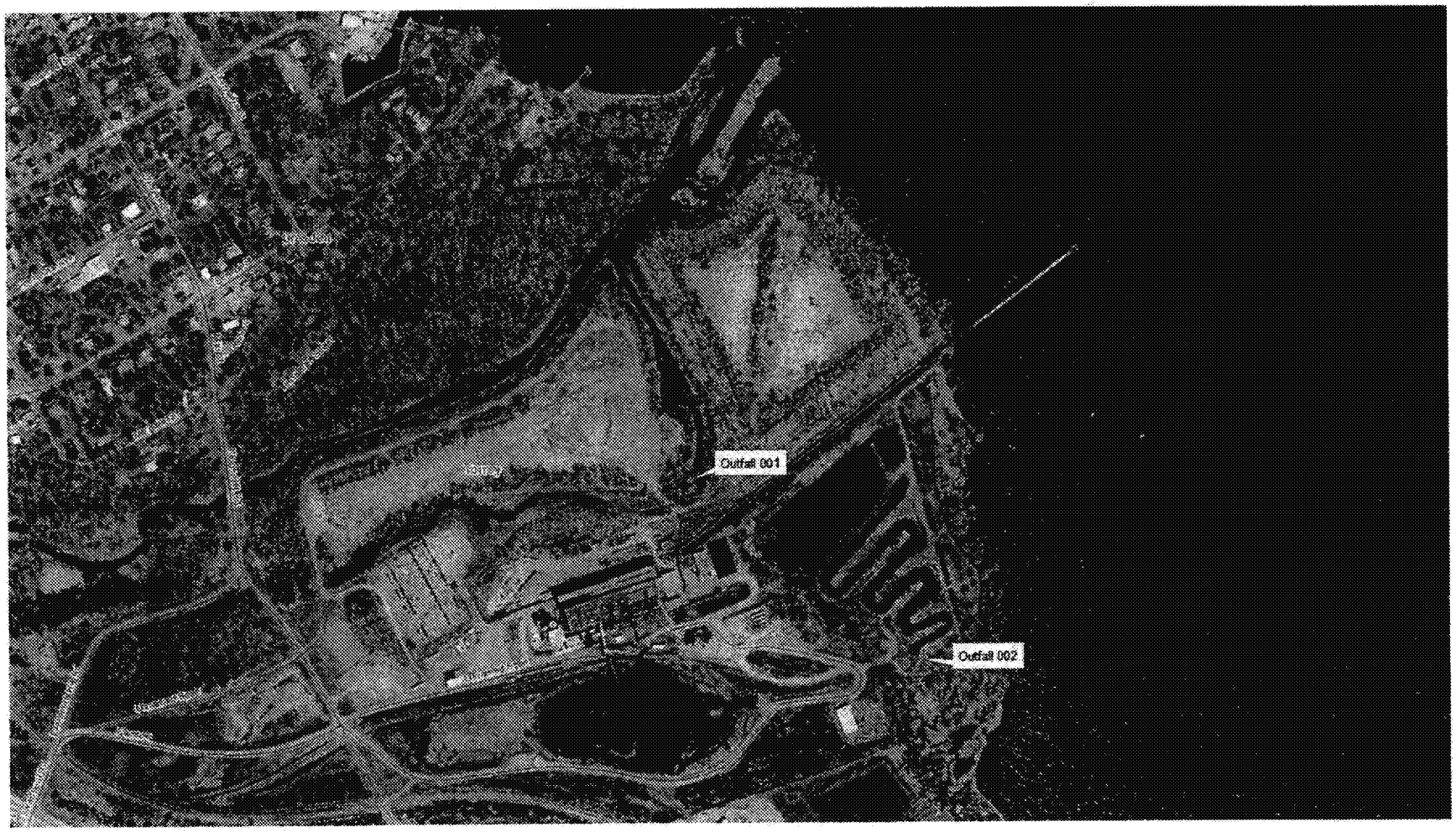
MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the locations(s) specified below:



MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the locations specified below:



GENERAL REQUIREMENTS

A. The regulations in 6 NYCRR Part 750 are hereby incorporated by reference and the conditions are enforceable requirements under this permit. The permittee shall comply with all requirements set forth in this permit and with all the applicable requirements of 6 NYCRR Part 750 incorporated into this permit by reference, including but not limited to the regulations in paragraphs B through I as follows:.

B. General Conditions

1. Duty to comply	6NYCRR Part 750-2.1(e) & 2.4
2. Duty to reapply	6NYCRR Part 750-1.16(a)
3. Need to halt or reduce activity not a defense	6NYCRR Part 750-2.1(g)
4. Duty to mitigate	6NYCRR Part 750-2.7(f)
5. Permit actions	6NYCRR Part 750-1.1(c), 1.18, 1.20 & 2.1(h)
6. Property rights	6NYCRR Part 750-2.2(b)
7. Duty to provide information	6NYCRR Part 750-2.1(i)
8. Inspection and entry	6NYCRR Part 750-2.1(a) & 2.3

C. Operation and Maintenance

1. Proper Operation & Maintenance	6NYCRR Part 750-2.8
2. Bypass	6NYCRR Part 750-1.2(a)(17), 2.8(b) & 2.7
3. Upset	6NYCRR Part 750-1.2(a)(94) & 2.8(c)

D. Monitoring and Records

1. Monitoring and records	6NYCRR Part 750-2.5(a)(2), 2.5(c)(1), 2.5(c)(2), 2.5(d) & 2.5(a)(6)
2. Signatory requirements	6NYCRR Part 750-1.8 & 2.5(b)

E. Reporting Requirements

1. Reporting requirements for non-POTWs	6NYCRR Part 750-2.5, 2.6, 2.7 & 1.17
2. Anticipated noncompliance	6NYCRR Part 750-2.7(a)
3. Transfers	6NYCRR Part 750-1.17
4. Monitoring reports	6NYCRR Part 750-2.5(e)
5. Compliance schedules	6NYCRR Part 750-1.14(d)
6. 24-hour reporting	6NYCRR Part 750-2.7(c) & (d)
7. Other noncompliance	6NYCRR Part 750-2.7(e)
8. Other information	6NYCRR Part 750-2.1(f)

F. Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

   a. The alteration or addition to the permitted facility may meet of the criteria for determining whether facility is a new source in 40 CFR §122.29(b); or
   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, or to notification requirements under 40 CFR §122.42(a)(1); or
   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

   In addition to the Department, the permittee shall submit a copy of this notice to the United States Environmental Protection Agency at the following address: U.S. EPA Region 2, Clean Water Regulatory Branch, 290 Broadway, 24th Floor, New York, NY 10007-1866.

GENERAL REQUIREMENTS continued

G. Sludge Management
The permittee shall comply with all applicable requirements of 6 NYCRR Part 360.

H. SPDES Permit Program Fee
The permittee shall pay to the Department an annual SPDES permit program fee within 30 days of the date of the first invoice, unless otherwise directed by the Department, and shall comply with all applicable requirements of ECL 72-0602 and 6 NYCRR Parts 480, 481 and 485. Note that if there is inconsistency between the fees specified in ECL 72-0602 and 6 NYCRR Part 485, the ECL 72-0602 fees govern.

I. Water Treatment Chemicals (WTCs)
New or increased use and discharge of a WTC requires prior Department review and authorization. At a minimum, the permittee must notify the Department in writing of its intent to change WTC use by submitting a completed *WTC Notification Form* for each proposed WTC. The Department will review that submittal and determine if a SPDES permit modification is necessary or whether WTC review and authorization may proceed outside of the formal permit administrative process. The majority of WTC authorizations do not require SPDES permit modification. In any event, use and discharge of a WTC shall not proceed without prior authorization from the Department. Examples of WTCs include biocides, coagulants, conditioners, corrosion inhibitors, defoamers, deposit control agents, flocculants, scale inhibitors, sequestrants, and settling aids.

1. WTC use shall not exceed the rate explicitly authorized by this permit or otherwise authorized in writing by the Department.
2. The permittee shall **maintain a logbook** of all WTC use, noting for each WTC the date, time, exact location, and amount of each dosage, and, the name of the individual applying or measuring the chemical. The logbook must also document that adequate process controls are in place to ensure that excessive levels of WTCs are not used.
3. The permittee shall **submit a completed *WTC Annual Report Form*** each year that they use and discharge WTCs. This form shall be attached to either the December DMR or the annual monitoring report required below.

The *WTC Notification Form* and *WTC Annual Report Form* are available from the Department's website at http://www.dec.ny.gov/permits/93245.html .

RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

A. The monitoring information required by this permit shall be summarized, signed and retained for a period of at least five years from the date of the sampling for subsequent inspection by the Department or its designated agent. **Also, monitoring information required by this permit shall be summarized and reported by submitting;**

[X] (if box is checked) completed and signed Discharge Monitoring Report (DMR) forms for each **one (1)** month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period.

[ ] (if box is checked) an annual report to the Regional Water Engineer at the address specified below. The annual report is due by February 1 each year and must summarize information for January to December of the previous year in a format acceptable to the Department.

[ ] (if box is checked) a monthly "Wastewater Facility Operation Report..." (form 92-15-7) to the:
[ ] Regional Water Engineer and/or [ ] County Health Department or Environmental Control Agency specified below

Send the **original** (top sheet) of each DMR page to:
Department of Environmental Conservation
Division of Water, Bureau of Water Compliance
625 Broadway
Albany, NY 12233-3506

Phone: (518) 402-8177

Send the **first copy** (second sheet) of each DMR page to:
Department of Environmental Conservation
Regional Water Engineer, Region 8
6274 E. Avon-Lima Road
Avon, NY 14414-9519

Phone: (585) 226-5450

B. Monitoring and analysis shall be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

C. More frequent monitoring of the discharge(s), monitoring point(s), or waters of the State than required by the permit, where analysis is performed by a certified laboratory or where such analysis is not required to be performed by a certified laboratory, shall be included in the calculations and recording of the data on the corresponding DMRs.

D. Calculations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

E. Unless otherwise specified, all information recorded on the DMRs shall be based upon measurements and sampling carried out during the most recently completed reporting period.

F. Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section 502 of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be directed to the New York State Department of Health, Environmental Laboratory Accreditation Program.

Exhibit B

ERM

345 Woodcliff Drive
2nd Floor
Fairport, New York
14450

Telephone: +1 585 387 0510
Fax: +1 585 387 0603

www.erm.com

Transmitted via electronic mail delivery
DEPPermitting@dec.ny.gov

12 January 2022

Division of Environmental Permits
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-1750

Reference: 0628226

Subject: State Pollutant Discharge Elimination System (SPDES) Renewal Application
Greenidge Generation LLC, Greenidge Station; Town of Torrey; Yates County, NY;
DEC ID 8-5736-00004, SPDES No. NY0001325;
Permit Expiration Date: 09/30/2022

Dear Division of Environmental Permits:

On behalf of Greenidge Generation LLC (Greenidge), ERM Consulting & Engineering, Inc. (ERM) hereby submits the SPDES Renewal Application for the Greenidge Station, located in the Village of Dresden, Town of Torrey, Yates County, New York.

This SPDES Renewal application is submitted to the Department at least 180 days prior to the expiration date of the current SPDES Permit referenced above; in accordance with 6 NYCRR Part 750-1.16(a).

If you have any questions concerning this SPDES renewal application, please call Greenidge's Mr. Dale Irwin or Mr. Tim Panaski at (315) 536-2359, or me at (585) 387-0510.

Sincerely,

David T. Murtha, QEP, CVI, TWIC
Consultant Director

cc: Cheri Jamison – NYSDEC DOW Permit Coordinator
D. Irwin, Greenidge Generation LLC
T. Panaski, Greenidge Generation LLC

New York State Department of Environmental Conservation
Division of Water
625 Broadway, Albany, 12233-3505
Phone: (518) 402-8111 . Fax: (518) 402-9029
Website: www.dec.ny.gov

State Pollutant Discharge Elimination System (SPDES)
NOTICE / RENEWAL APPLICATION

11/09/2021

DALE IRWIN
GMMM GREENIDGE STATION
PO BOX 187
DRESDEN NY 14441-0187

Facility: GREENIDGE STATION
Ind. Code: 4911 County: YATES
DEC ID: 8573600004 SPDES No.: NY0001325
Permit Expiration Date: 09/30/2022
Renewal Application Due By: 04/03/2022

Dear Permittee,

The State Pollutant Elimination System (SPDES) permit for the facility referenced above expires on the date indicated. You are required by law to submit a renewal application at least 180 days prior to the expiration date of your current permit.

Please sign the Certification on this page and return it with the attached questionnaire. Refer to the attached instructions for who may sign this application. If there are any corrections to the above name or address, please write in those corrections above.

If there are changes to your discharge, or to operations affecting the discharge, then in addition to this renewal application you must also submit a separate permit modification application to the Regional Permit Administrator for the DEC region where the facility is located. See the attached instructions for information regarding filing an application for permit modification.

Please contact me if you have any questions.

Sincerely,
Cheri Jamison.

Permit Coordinator

SPDES PERMIT RENEWAL APPLICATION CERTIFICATION

CERTIFICATION: I hereby affirm that under penalty of perjury that the information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Dale Irwin	President & Plant Manager	Greenidge Generation LLC
Name of Authorized Applicant	Title	Company
DocuSigned by: Dale L Irwin 936819DC6B8C49D... 1/12/2022	January 12, 2021	
Signature of Authorized Applicant	Date	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
State Pollutant Discharge Elimination System (SPDES) Permit
INSTRUCTIONS FOR PERMIT RENEWAL

The New York State Department of Environmental Conservation (Department) administers a centralized and streamlined process for the renewal of SPDES Permits in accordance with our Environmental Benefit Permit Strategy (EBPS). This renewal application is composed of the SPDES NOTICE/RENEWAL APPLICATION and the SPDES RENEWAL APPLICATION QUESTIONNAIRE.

Instructions for SPDES Permit Renewal

1. **SPDES Permit Notice/Renewal Application letter:**
   Corrections - Make any necessary corrections to the Facility Name, Contact Name and Address. You should note on the *SPDES Permit Notice/Renewal Application letter* if there has been a change in facility ownership resulting in a new permittee, or you may submit an *Application for Permit Transfer and Application for Transfer of Pending Applications* along with your application (available on DEC's website page, *Application Forms for DEC Permits* - http://www.dec.ny.gov/permits/6222.html)

   Certification - Read and complete the certification at the bottom of the letter. Acceptable signatures are identified in 40 CFR Part 122.22(a) and are summarized below. A *SPDES Permit Designation of Authority Form* (see attached) is required if the application is signed by anyone else.

Organization	Required Signature
• Corporation	Principal executive officer of at least vice-president level or duly authorized representative who is responsible for the overall operation of the facility.
• Partnership	General partner
• Sole proprietorship	Proprietor
• Municipality, state, federal, or public facility	Principal executive officer or other ranking elected official

2. **SPDES Permit Renewal Application Questionnaire** - Complete the attached *SPDES Permit Renewal Application Questionnaire*.

3. **Other Forms** - You may receive additional forms with the *SPDES Permit Notice/Renewal Application letter*. These additional forms must be completed and returned with your application or your application will be considered incomplete. For example: Any facility located in Brooklyn, Queens, Nassau or Suffolk counties must submit an application supplement entitled *Discharges Within Sole Source Aquifers*.

4. **Submitting the Renewal Application** – Complete and submit the following forms by the "Renewal Application Due By" date shown on the *SPDES Permit Notice/Renewal Application letter*:
   - SPDES Permit Notice/Renewal Application letter;
   - SPDES Permit Renewal Application Questionnaire;
   - Application for Permit Transfer and Application for Transfer of Pending Applications, if applicable;
   - other forms, if applicable.

   The Department encourages electronic submission of the renewal application. Please email to:

   DEPPermitting@dec.ny.gov

   Alternatively, the renewal application may be mailed to:

   New York State Department of Environmental Conservation
   Division of Environmental Permits
   625 Broadway, Albany, NY 12233-1750

Failure to provide a timely and complete application may result in the expiration of your permit. Keep a copy of your completed forms for your records.

DEC Review of Application

In most cases, upon receipt of a completed renewal application, the Department will publish a public notice of your permit renewal in our Environmental Notice Bulletin - http://www.dec.ny.gov/enb/enb.html. The Department will notify you if your permit renewal is processed differently.

Following resolution of any comments received during the public notice period concerning renewal of your permit, you will receive a *SPDES Permit Renewal letter* with new permit effective and expiration dates. The *SPDES Permit Renewal letter* together with the previous valid permit for the facility constitute authorization to discharge wastewater in accordance with all terms, conditions and limitations specified in the previously issued permit. **Attach the *SPDES Permit Renewal letter* to your prior permit.**

Permit Modifications

You are required to promptly notify the Department of all proposed changes which might affect your wastewater discharge, and request any necessary modifications to your permit. This includes production changes, discharge of new chemicals, changes to wastewater treatment/discharge facilities, or transfer of ownership.

Requests for permit modifications must be filed as soon as a change that might affect your permit has been identified or is anticipated, by filing an entire new detailed application or by filing specific portions thereof; either on a form or by a letter, or both. Forms may be obtained from DEC's website page, *Application Forms for DEC Permits* - http://www.dec.ny.gov/permits/6222.html. Permit modification requests should be filed with the Regional Permit Administrator for the DEC region where your facility is located (note that this is a different location than that required for your permit renewal). Refer to DEC's website page http://www.dec.ny.gov/about/3938.html for Regional Permit Administrator contact information.

Department-Initiated Modifications

Information on the *SPDES Permit Renewal Application Questionnaire* together with other available information will be used to determine a priority for the Department to initiate modification of your permit. In this regard, you may be required to submit a detailed application at a future date. You will be notified to file this additional information at least 90 days before it will be due at the Department. Any future Department-initiated modification to your permit requirements will conform to full regulatory due process, including a draft permit, public notice and opportunities for public hearing. This modification process is described at http://www.dec.ny.gov/docs/water_pdf/togs122.pdf.

Annual Regulatory Fees

The Department will bill you separately each year for the required regulatory fees associated with this permit.

For More Information

See http://www.dec.ny.gov/docs/water_pdf/togs122.pdf for more information about EBPS. If you have any questions, please contact the Department's Bureau of Water Permits, Permit Coordinator at (518) 402-8210.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
State Pollutant Discharge Elimination System (SPDES) Permit

RENEWAL APPLICATION QUESTIONNAIRE

For Industrial & Municipal discharge only (Class 01, 03, 04, 05, 07 & 10)

Please enter the numbers from your current permit:	**DEC ID Number:**	**8 - 5736 - 00004 / 00001**
	SPDES Number:	**NY0001325**

THIS PAGE MUST BE COMPLETED AND RETURNED WITH YOUR RENEWAL APPLICATION

Please **TYPE** or **PRINT** neatly. Keep a copy for your records.

Has the SPDES permit for your facility been modified in the past 5 years? ☒ YES ☐ NO

Please indicate which of the following best describes the situation at your facility:

☐ None of the concerns on the "Self Evaluation List" (see page 2) apply to my facility at this time and I will not be applying for a modification of the SPDES permit in the foreseeable future.

☐ Yes, some of the items on the "Self Evaluations List" have led me to believe that the permit for this facility may need to be modified. I have provided an explanation below. (Note that such an explanation does not constitute an application for permit modification. An application for permit modification must be submitted separately to the Department's regional office.)

- ☐ I previously submitted a permit modification application to the Department's regional office.
- ☐ I will submit a permit modification application to the Department's regional office.

☒ The items on the "Self Evaluation List" have left me unable to conclude whether my permit needs to be modified at this time. I am reporting the following general concerns about my permit:

1. In conformance with 40 CFR 125.72, the Greenidge current SPDES permit contains a §316(a) thermal variance; therefore, Greenidge requests the thermal variance be continued in the permit renewal.
2. We are evaluating the federal Coal Combustion Residuals (CCR) Rule requirements and its potential impact on the current SPDES permit.

SELF EVALUATION LIST

The following information focuses on some of the more frequent reasons for requesting a SPDES permit modification. This is presented to aid you in deciding whether to file an application for a SPDES permit modification, but it does not replace the need for you to be thoroughly familiar with all regulatory requirements. As part of the renewal process, each permittee must determine whether a permit modification is required. Please refer to 6 NYCRR Part 750 for further details.

The Department must be notified of any of the following changes at your facility. Some of these changes may require a permit modification or approval:

* Facility expansions or other modifications, production increase or decrease of 20% or more, changed products, changed production methods, use of new water treatment chemicals, changed water intake quantities or locations, or significant increases in discharge flow rate through any outfall point.

* Changes in wastewater collection, treatment or disposal, including plans to substantially alter the method of sludge treatment, conditioning or disposal.

* Any monitoring on your facility's effluent(s) that indicates the presence of pollutants which are not authorized by your present SPDES permit or the presence of toxicity unless this information has been previously reported to the Department.

* Any changes in the Permittee Name and Address, Facility Name and Address, or Discharge Monitoring Report (DMR) Mailing Address found on the first page of your permit. Forms are available to transfer ownership, change permittee name, and authorize a person to sign and submit DMR Reports (see http://www.dec.ny.gov/permits/6222.html).

* Any changes or additions to storm water conveyances, including ditch or pipe outfalls, which are defined in federal regulations (40CFR Parts 122, 123 & 124) as discharges associated with "industrial activity" and thereby subject to federal storm water permit regulations.

* Knowledge of any outfalls, bypasses, overflows, or combined sewer overflow points in your system not presently authorized by your SPDES permit.

* Any changes which could cause a violation of permit conditions.

* SPDES permit violations, petroleum or chemical spills and leaks, or wastewater treatment plant upsets which resulted in unauthorized pollutants being released to the surface or ground waters of the State which are reportable to the Department.

ADDITIONAL CONSIDERATIONS FOR PUBLICLY OWNED TREATMENT WORKS (POTW)

* Accepting or planning to accept industrial waste, hazardous waste, landfill leachate, septage, or other wastes containing pollutants not covered by your SPDES permit or constituting a substantial change in the volume or character of pollutants.

* Any proposals for sewer extensions.

NEW YORK STATE OF OPPORTUNITY

Department of Environmental Conservation

State Pollutant Discharge Elimination System (SPDES) Permit - Designation of Authority

Complete and submit this form with your SPDES application for any contact and authorization changes for the facility named below. Submit additional pages if needed.

Facility Name:	Greenidge Generating Station
Mailing Address, Post Office City, State, Zip Code:	590 Plant Road P. O. Box 187 Dresden, New York 14441-0187

SPDES #:	NY 0 0 0 1 3 2 5	DEC ID:	8 - 5 7 3 6 - 0 0 0 0 4

Water Permitting Facility Owner Contact The named individual and/or Title below is designated to receive and sign the SPDES application form, and receive a copy of the issued SPDES permit for this facility –

Name:	Tim Panaski, CSP		
Title:	Director, Safety & Sustainability		
Company Name:	Greenidge Generation LLC		
Mailing Address, Post Office City, State, Zip Code:	590 Plant Road P. O. Box 187 Dresden, New York 14441-0187		
Email:	tpanaski@greenidge.com	Telephone:	+1 315-536-2359 ext. 3274

Water Fee Billing Contact The named individual and/or Title below is designated to receive mailings and handle all matters related to SPDES fee billing for this facility –

Name:	Tim Panaski, CSP		
Title:	Director, Safety & Sustainability		
Company Name:	Greenidge Generation LLC		
Mailing Address, Post Office City, State, Zip Code:	590 Plant Road P. O. Box 187 Dresden, New York 14441-0187		
Email:	tpanaski@greenidge.com	Telephone:	+1 315-536-2359 ext. 3274

I am authorized* as the Permittee to make the changes noted above:

Name:	Dale Irwin		
Title:	President & Plant Manager		
Company Name:	Greenidge Generation LLC		
Mailing Address, Post Office City, State, Zip Code:	590 Plant Road P.O. Box 187 Dresden, New York 14414-0187		
Email:	dirwin@greenidge.com	Telephone:	+1 315-536-2359 ext. 3423
Signature of Permittee:	DocuSigned by: Dale L Irwin 1/12/2022	Date:	January 10, 2022

* A change in Permittee Name requires an Application for Permit Transfer.
Acceptable Permittee signatures are as follows:

Organization	Required Signature
• Corporation	Principal executive officer of at least vice-president level
• Partnership	General partner
• Sole proprietorship	Proprietor
• Municipality, state, federal, or public facility	Principal executive officer, other ranking elected official